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E-learning based Cloud Computing Environment: A Systematic Review, Challenges, and Opportunities

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ABSTRACT New technologies drive educational shifts, transforming offline to online learning. This study investigates e-learning and cloud computing integration to understand synergies and their potential impact. The study addresses two primary research questions: the influence of e-learning on factors like architecture, software, performance, security, hardware, network, and virtual aspects, and the examination of cloud computing services and models such as SaaS, PaaS, IaaS, and S/O/A. The research aims to provide insights into how e-learning is incorporated in a cloud computing environment. The motivation behind this study is to investigate the intricate relationship between e-learning and cloud computing. By analyzing 154 scientific papers, the study delves into the specifics of this integration, highlighting trends and areas that have received more attention. The study examines e-learning in a cloud computing environment, focusing on architecture (27%), general topics (21%), software (19%), and performance (18%). Virtual environments have fewer security issues, while storage and network focus are more prevalent. Cloud computing services are mainly all services, with software as a service (18%), infrastructure as a service (17%), and platforms as a service (10%). Most studies are based on public clouds (74%), all other models (11%), and hybrid clouds (3%). The study examines e-learning integration in cloud computing, highlighting limitations in hybrid and private clouds, specialized infrastructure, and a gap in platforms and infrastructure offerings.

INDEX TERMS Cloud computing, E-learning, environment, educational, e-learning based Cloud computing, systematic.

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Akula Achari



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Machine Intelligence for Research and Innovations Om Prakash Verma,Lipo Wang,Rajesh Kumar,Anupam Yadav,Ranjeet Kumar Rout,2025-10-27 The book is a collection of high quality peer reviewed research papers presented in the Second International Conference on MACHine inTElligence for Research Innovations MAiTRI 2024 Summit held at National Institute of Technology Srinagar India during 21-23 June 2024 This book focuses on recent advancement in the theory and realization of machine intelligence MI and their tools and growing applications such as machine learning deep learning quantum machine learning real time computer vision pattern recognition natural language processing statistical modelling autonomous vehicles human interfaces computational intelligence and robotics **Cybersecurity in Cloud**

Computing Akula Achari,2025-01-23 Cybersecurity in Cloud Computing delves into the security challenges and solutions in the rapidly evolving world of cloud technology We explore key concepts such as data protection threat detection and risk management within cloud environments The book highlights how cloud services can enhance scalability and flexibility while also presenting new security risks that need to be addressed Readers will gain insights into the latest cybersecurity practices including encryption methods identity management and multi factor authentication We also discuss the importance of developing a comprehensive security policy to safeguard cloud infrastructure Whether you are an IT professional or a business owner this book equips you with the tools to secure your digital assets and maintain data integrity in the cloud

Attribute-Based Encryption and Access Control Dijiang Huang,Qiuxiang Dong,Yan Zhu,2020-02-25 This book covers a broader scope of Attribute Based Encryption ABE from the background knowledge to specific constructions theoretic proofs and applications The goal is to provide in depth knowledge usable for college students and researchers who want to have a comprehensive understanding of ABE schemes and novel ABE enabled research and applications The specific focus is to present the development of using new ABE features such as group based access ID based revocation and attributes management functions such as delegation federation and interoperability These new capabilities can build a new ABE based Attribute Based Access Control ABAC solution that can incorporate data access policies and control into ciphertext This book is also ideal for IT companies to provide them with the most recent technologies and research on how to implement data access control models for mobile and data centric applications where data access control does not need to rely on a fixed access control infrastructure It is also of interest to those working in security to enable them to have the most recent developments in data access control such as ICN and Blockchain technologies Features Covers cryptographic background knowledge for ABE and ABAC Features various ABE constructions to achieve integrated access control capabilities Offers a comprehensive coverage of ABE based ABAC Provides ABE applications with real world examples Advances the ABE research to support new mobile and data centric applications [Integrating Research and Practice in Software Engineering](#)

Stan Jarzabek,Aneta Poniszewska-Marańda,Lech Madeyski,2019-08-02 In this book the authors highlight recent findings that

hold the potential to improve software products or development processes in addition they help readers understand new concepts and technologies and to see what it takes to migrate from old to new platforms Some of the authors have spent most of their careers in industry working at the frontiers of practice based innovation and are at the same time prominent researchers who have made significant academic contributions Others work together with industry to test in industrial settings the methods they ve developed in the lab The choice of subject and authors represent the key elements of this book Its respective chapters cover a wide range of topics from cloud computing to agile development applications of data science methods re engineering of aging applications into modern ones and business and requirements engineering Taken together they offer a valuable asset for practitioners and researchers alike

Smart Computing and Communication Meikang Qiu,2017-01-11 This book constitutes the proceedings of the First International Conference on Smart Computing and Communication SmartCom 2016 held in Shenzhen China in December 2016 The 59 papers presented in this volume were carefully reviewed and selected from 210 submissions The conference focuses on both smart computing and communications fields and aims to collect recent academic work to improve the research and practical applications

Encyclopedia of Cloud Computing San Murugesan,Irena Bojanova,2016-08-01 The Encyclopedia of Cloud Computing provides IT professionals educators researchers and students with a compendium of cloud computing knowledge Authored by a spectrum of subject matter experts in industry and academia this unique publication in a single volume covers a wide range of cloud computing topics including technological trends and developments research opportunities best practices standards and cloud adoption Providing multiple perspectives it also addresses questions that stakeholders might have in the context of development operation management and use of clouds Furthermore it examines cloud computing s impact now and in the future The encyclopedia presents 56 chapters logically organized into 10 sections Each chapter covers a major topic area with cross references to other chapters and contains tables illustrations side bars as appropriate Furthermore each chapter presents its summary at the beginning and backend material references and additional resources for further information

Energy Efficient Computation Offloading in Mobile Edge Computing Ying Chen,Ning Zhang,Yuan Wu,Sherman Shen,2022-10-30 This book provides a comprehensive review and in depth discussion of the state of the art research literature and propose energy efficient computation offloading and resources management for mobile edge computing MEC covering task offloading channel allocation frequency scaling and resource scheduling Since the task arrival process and channel conditions are stochastic and dynamic the authors first propose an energy efficient dynamic computing offloading scheme to minimize energy consumption and guarantee end devices delay performance To further improve energy efficiency combined with tail energy the authors present a computation offloading and frequency scaling scheme to jointly deal with the stochastic task allocation and CPU cycle frequency scaling for minimal energy consumption while guaranteeing the system stability They also investigate delay aware and energy efficient computation offloading in a dynamic MEC system with

multiple edge servers and introduce an end to end deep reinforcement learning DRL approach to select the best edge server for offloading and allocate the optimal computational resource such that the expected long term utility is maximized Finally the authors study the multi task computation offloading in multi access MEC via non orthogonal multiple access NOMA and accounting for the time varying channel conditions An online algorithm based on DRL is proposed to efficiently learn the near optimal offloading solutions Researchers working in mobile edge computing task offloading and resource management as well as advanced level students in electrical and computer engineering telecommunications computer science or other related disciplines will find this book useful as a reference Professionals working within these related fields will also benefit from this book

The 2020 International Conference on Machine Learning and Big Data Analytics for IoT Security and Privacy John MacIntyre,Jinghua Zhao,Xiaomeng Ma,2020-11-03 This book presents the proceedings of The 2020 International Conference on Machine Learning and Big Data Analytics for IoT Security and Privacy SPIoT 2020 held in Shanghai China on November 6 2020 Due to the COVID 19 outbreak problem SPIoT 2020 conference was held online by Tencent Meeting It provides comprehensive coverage of the latest advances and trends in information technology science and engineering addressing a number of broad themes including novel machine learning and big data analytics methods for IoT security data mining and statistical modelling for the secure IoT and machine learning based security detecting protocols which inspire the development of IoT security and privacy technologies The contributions cover a wide range of topics analytics and machine learning applications to IoT security data based metrics and risk assessment approaches for IoT data confidentiality and privacy in IoT and authentication and access control for data usage in IoT Outlining promising future research directions the book is a valuable resource for students researchers and professionals and provides a useful reference guide for newcomers to the IoT security and privacy field

Innovations in Computer Science and Engineering H. S. Saini,Rishi Sayal,Sandeep Rawat,2016-02-19 The book is a collection of high quality peer reviewed research papers presented at the third International Conference on Innovations in Computer Science and Engineering ICICSE 2015 held at Guru Nanak Institutions Hyderabad India during 7 8 August 2015 The book discusses a wide variety of industrial engineering and scientific applications of the emerging techniques Researchers from academic and industry present their original work and exchange ideas information techniques and applications in the field of Communication Computing and Data Science and Analytics

Fog/Edge Computing For Security, Privacy, and Applications Wei Chang,Jie Wu,2021-01-04 This book provides the state of the art development on security and privacy for fog edge computing together with their system architectural support and applications This book is organized into five parts with a total of 15 chapters Each area corresponds to an important snapshot The first part of this book presents an overview of fog edge computing focusing on its relationship with cloud technology and the future with the use of 5G communication Several applications of edge computing are discussed The second part of this book considers several security issues in fog edge computing including

the secure storage and search services collaborative intrusion detection method on IoT fog computing and the feasibility of deploying Byzantine agreement protocols in untrusted environments The third part of this book studies the privacy issues in fog edge computing It first investigates the unique privacy challenges in fog edge computing and then discusses a privacy preserving framework for the edge based video analysis a popular machine learning application on fog edge This book also covers the security architectural design of fog edge computing including a comprehensive overview of vulnerabilities in fog edge computing within multiple architectural levels the security and intelligent management the implementation of network function virtualization enabled multicasting in part four It explains how to use the blockchain to realize security services The last part of this book surveys applications of fog edge computing including the fog edge computing in Industrial IoT edge based augmented reality data streaming in fog edge computing and the blockchain based application for edge IoT This book is designed for academics researchers and government officials working in the field of fog edge computing and cloud computing Practitioners and business organizations e g executives system designers and marketing professionals who conduct teaching research decision making and designing fog edge technology will also benefit from this book The content of this book will be particularly useful for advanced level students studying computer science computer technology and information systems but also applies to students in business education and economics who would benefit from the information models and case studies therein

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